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Oat Variety Test

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Abstract
Twenty-nine varieties were included in the 2008 oat test at Sutherland, IA. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted April 7 at a rate of 3 bushels/acre. The oat plots were harvested on July 29.

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Materials and Methods

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Results and Discussion

Average oat grain yield at Sutherland in 2008 was 140 bushels/acre, 29 bushels/acre more than the three-year average yield (Table 1). Based on three years of data, Baker was the highest yielding variety. Tack had the highest test weight among hulled (normal) oat varieties in 2008. Buff is a hull-less variety and thus had a higher test weight.

Additional information on oat and barley variety tests in the state can be found in the publication, "Iowa Crop Performance Tests—Oat and Barley, 2008," which is available from county extension offices (Pm-1645) and at www.croptesting.iastate.edu/.

Table 1. Performance of oat varieties tested at Sutherland, IA.

	Bushels/acre				Date	Height	Lodging	Groat	Test
Variety	2006	2007	2008	3 yr avg.	(June)[1]	inches[1]	score[2]	%[3]	weight[4]
Baker	75	141	155	124	21	37.5	59.2	73	33.9
Blaze	79	123	156	119	22	35.7	67.1	73	34.7
Buff	64	96	116	92	22	35.4	43.4	89	42.5
Chaps	71	121	149	114	22	36.5	51.3	74	33.0
Cherokee	63	70	98	77	18	35.4	19.7	75	32.9
Classic			129		24	37.0			33.2
Don			133		18	32.0			34.4
Drumlin	75	118	159	117	26	36.5	80.3	73	33.0
Esker	69	127	143	113	21	36.2	51.3	77	33.6
Excel		143	159		21	35.7	30.2	72	35.0
Hi-Fi	75	108	154	112	26	35.9	40.8	69	33.6
IN09201	83	124	139	115	19	34.4	24.9	72	34.3
Jay	78	124	144	115	22	34.6	38.1	71	35.4
Jerry	67	119	137	108	23	38.6	19.7	72	35.4
Jim	78	119	143	113	20	37.8	48.7	75	34.9
Kame	68	121	147	112	19	34.4	17.0	73	32.7
Morton			139		27	38.9		69	32.0
Ogle	72	128	152	117	21	37.8	23.6	72	32.2
Reeves	78	127	126	110	20	39.4	80.3	73	35.9
Richland	66	84	122	91	21	36.2	56.6	73	32.3
Riser			100		16	33.9		73	35.9
Robust	79	134	152	122	28	33.6	17.0	67	33.4
Souris			145		24	34.4		75	34.5
Spurs	75	125	157	119	20	34.9	27.6	72	36.2
Stallion	78	134	158	123	25	39.9	80.3	73	36.3
Tack			148		21	31.5		74	37.6
Wabasha	75	119	144	113	24	38.1	38.1	74	34.1
Winona	71	115	119	102	18	36.5	18.4	75	35.3
Woodburn	72	127	145	115	18	36.2	53.9	75	35.7
Average	73	119	140	111	22	36.0	42.9	73	34.6

[1]Heading date at Ames, 2008.
[2]Lodging from Crawfordsville where significant lodging occurred in 2006.
This number therefore does not reflect average lodging across environments but only worst-case lodging.
[3]Groat %–2008 average from three sites.
[4]Test weight–2008 average from three sites.